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API Standard XD6 Laser Test Data

API XD6 system provides six simultaneous measurements. These include linear displacement, horizontal straightness (XX), vertical straightness (YY), yaw (A), pitch (B), and roll (C).

Linear
Linear measurements are made by recording the distance the machine traveled along the selected axis comparing to the true position the laser recorded.

Horizontal Straightness
The laser system will measure the straightness in two axes orthogonal to the axis of motion.

Pitch and Yaw Measurements
With the laser moving along the X-Axis the 6-D sensor will measure pitch and yaw. Pitch may be described as rotation around the Y-Axis, or rotation in the XZ plane; and yaw as rotation about the Z-Axis, or rotation in the XY plane.

Roll Measurement
With the laser moving along the X-Axis the 6-D sensor will measure roll. Roll may be described as rotation around the X-Axis, or rotation in the YZ plane.

Rotary Measurement
The API system can also measure rotary movement as in the B axis of a machine tool.

The data for the 6 measurements can all in 1 setup and run making it the most efficient system on the market today.

API diagnostic software calculates and produces the following machine performance evaluation.

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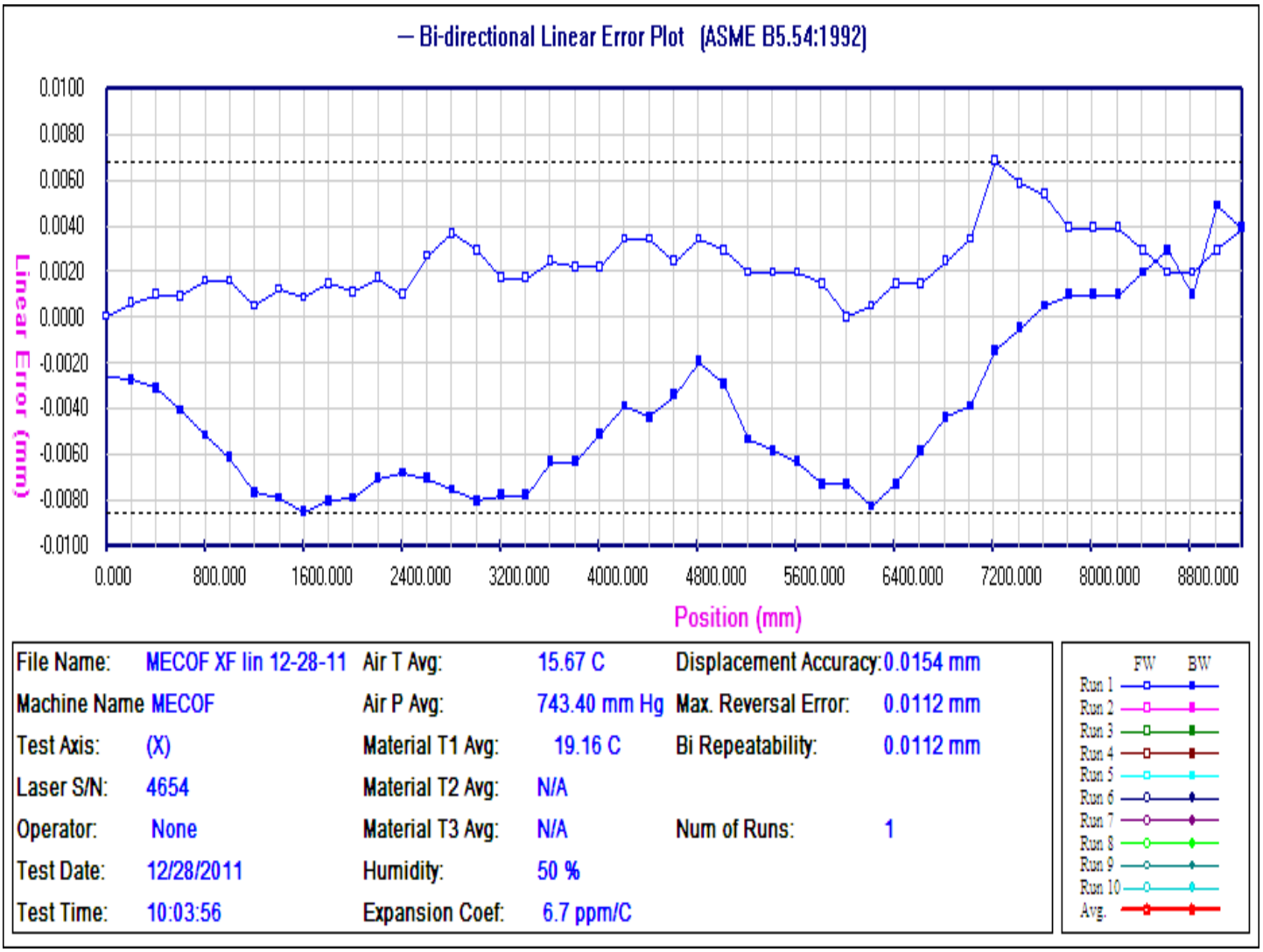

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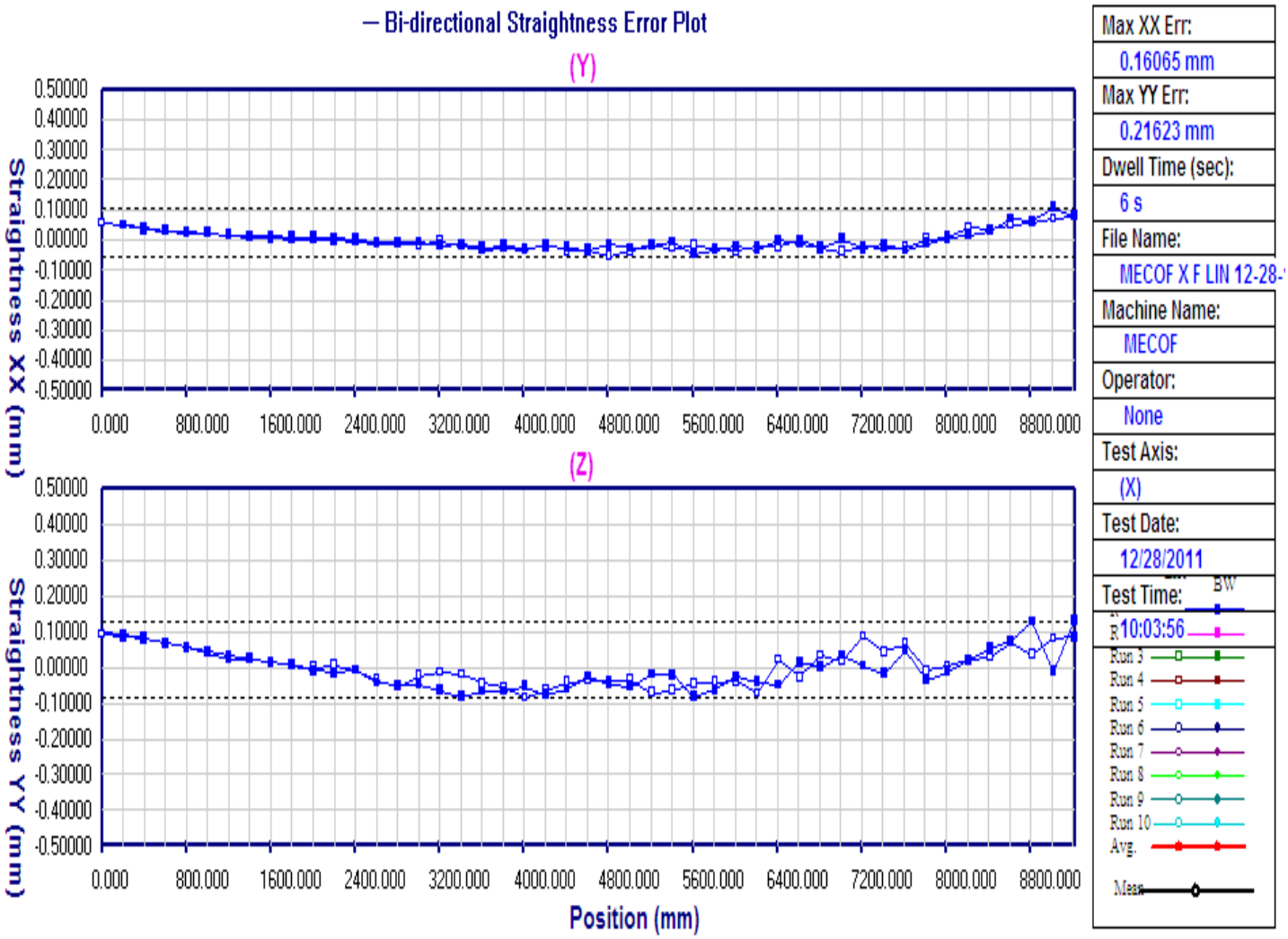

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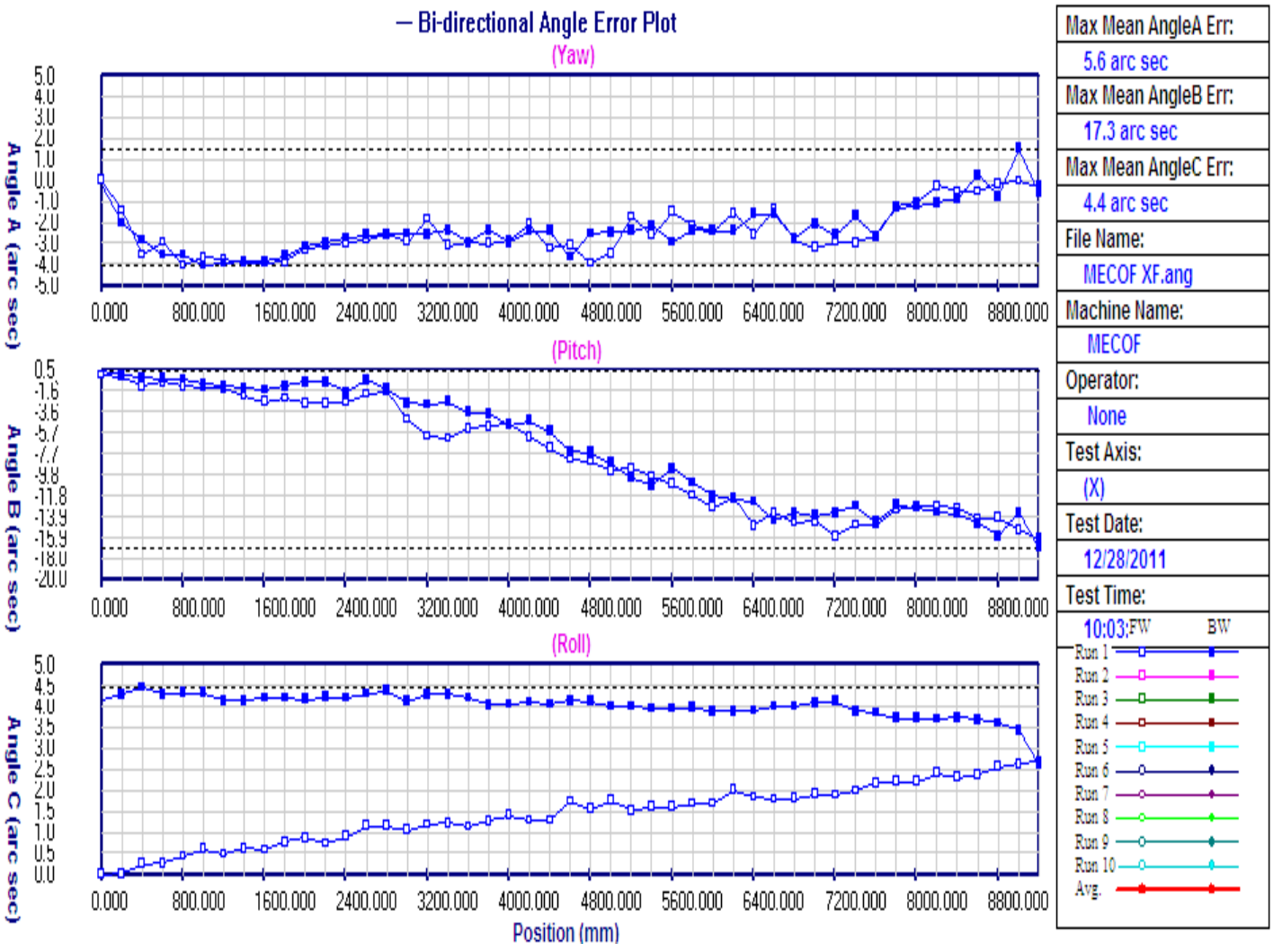

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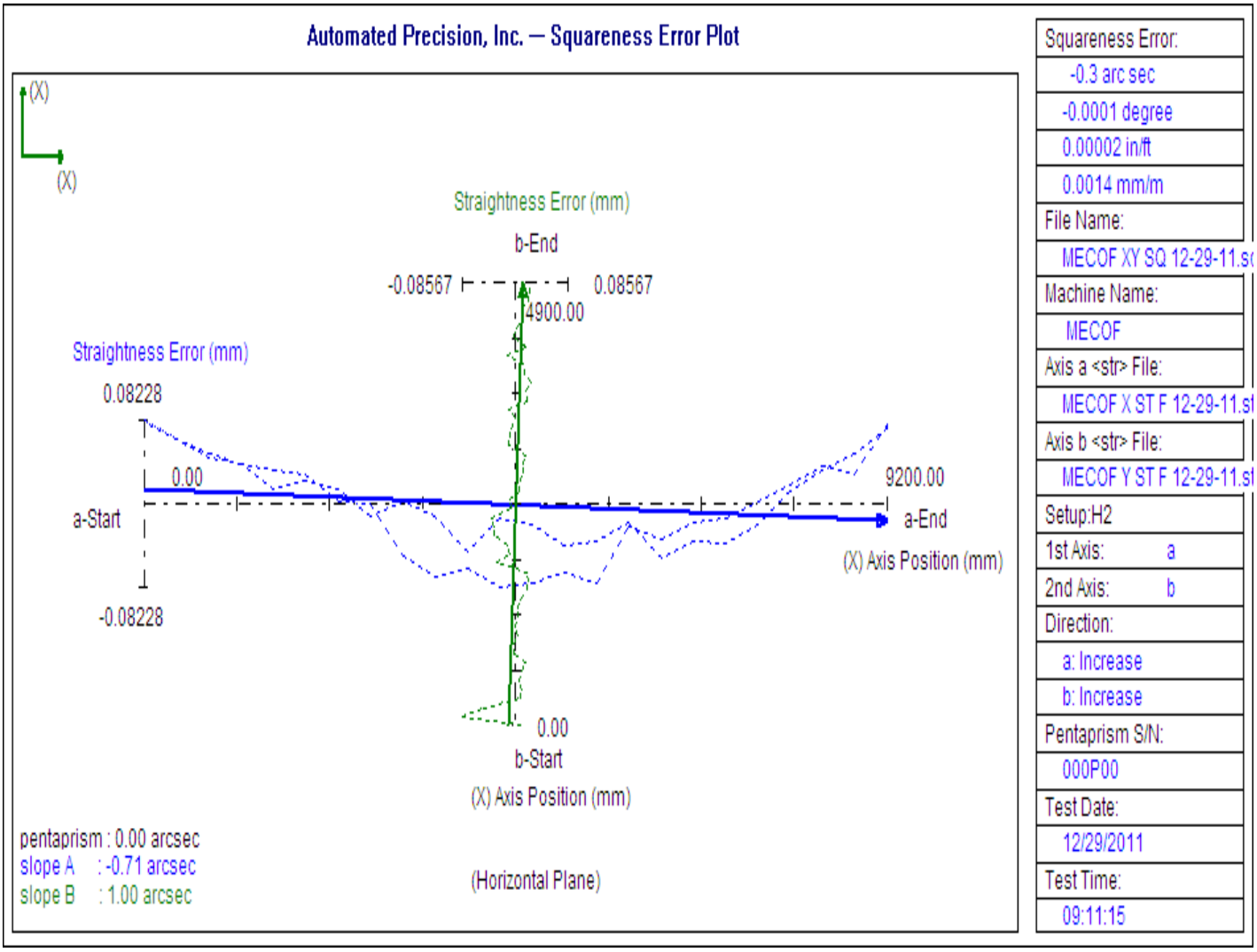

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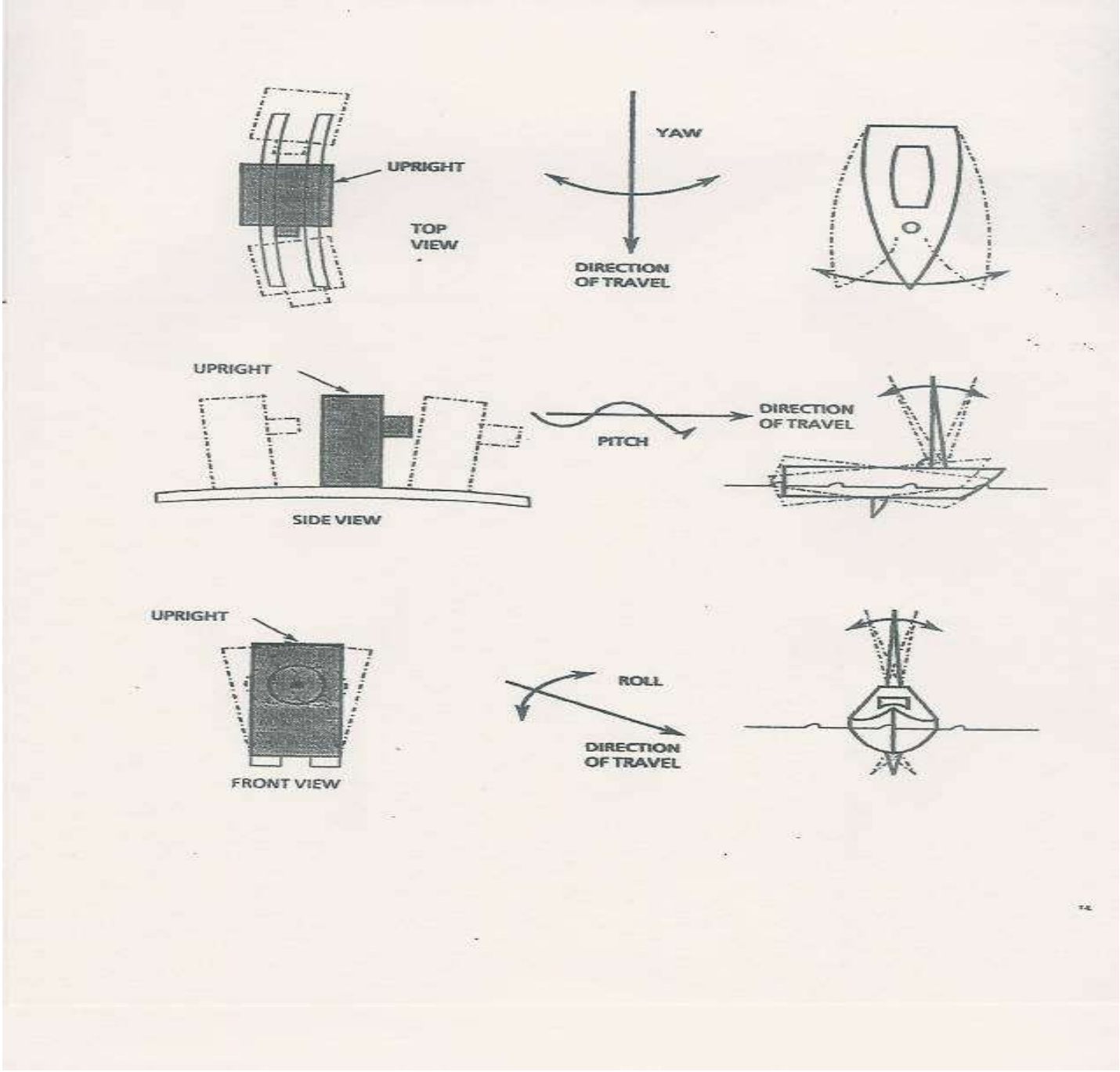
Pitch, Yaw and Roll



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